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MONTHLY REPORT

1 February - 28 February 1958

SYSTEMS ENGINEERING BRANCH
ENGINEERING DIVISION

1. At the request of OSI, the Systems Design Section is preparing a bill of materials for a kit comprising a receiving antenna and associated transmission line for use in the 2-30 Mc. range.

2. The Semi-Annual Engineering Report form, prepared by the Field Engineering Section, should soon be issued to all communications areas. An OC Order setting up a schedule for submitting the reports has been signed and approved for distribution. The covering dispatch for the initial issue of the report forms has also been approved and signed. The report forms are now being reproduced and, barring unforeseen delays, will be issued during the next reporting period.

25X1A5a1

3. In response to a request from [REDACTED] the Systems Design Section is redesigning three Fox Test Drum Assemblies to provide specific test messages and station call signs. It is planned that the redesigned drums be produced by the R&D Model Shop.

4. Approximately ten large drawings and twelve smaller drawings (charts, graphs, lettering and wiring diagrams) were prepared during this reporting period by the FES Drafting Room in support of SEB, IMB, OC-O&T and Signal Center projects.

5. E-5041 - RT-4 - Transmitter Repackaging.

The six repackaged RT-4 transmitters, now designated as RT-4A's, have been received from the contractor, given a T&I inspection, and placed in stock. Five of these units will be sent to overseas base stations for evaluation. Task Order No. 8 with [REDACTED] has now been terminated.

25X1A5a1

25X1A9a

25X1A5a1

25X1A9a

6. Mr. [REDACTED] senior FES draftsman, now TDY [REDACTED] 25X1A5a1 will go on an extended 6 weeks TDY to [REDACTED] beginning 4 March 1958. Our present Drafting Room staff, consisting of one draftsman, Mrs. Mildred [REDACTED], is kept fairly busy with a moderate overall work load. EES and SDS project engineers reduce this load to some extent by occasionally doing their own small drawing jobs. At present the Drafting Room is not prepared for a moderate-to-heavy work load. An increase in work load is expected within approximately 3 - 4 months when the first semi-annual engineering reports will be forthcoming.

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7. The Mobile Message Center (VC-1) van has undergone environmental testing [REDACTED] Operational tests will be completed during March. (See attached Project E-5080 report.)

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25X1A9a

8. The [REDACTED] has announced that the first Tiny-Tot assembled at their plant under the existing contract will be completed on 5 March 1958. Mr. [REDACTED] will visit the plant at that time to inspect the unit and to set up testing procedures for the remaining 35 units on order. (See attached Project E-5092 report.)

9. The Tiny-Tot circuitry has been modified again and is now transistorized. The only source of radiation now are the selector magnets themselves. In the 15 kc.-1000 mc. spectrum the inductive maximum measures 5 μ volts per meter at 18 inches and is below noise level at 24 inches. Reliability tests are being run now to insure operational ability over long periods of time. (See attached Project E-5071 report.)

10. The six Portable Recording Studios have been checked through the T&I Section and will be ready for issue upon receipt of operating instructions which are now being prepared.

11. E-5020: No Modification Work Orders were published during this reporting period.

12. NEW PROJECTS

E-5106 - Mechanical Transmitter Interlock Switches
E-5113 - Thermocouples and Meters as Used in the TAC-1

13. COMPLETED PROJECTS

E-5055 - Test Equipment Standardization
E-5107 - Standardization of Antenna and Transmission Line
Construction Drawings and Materials

14. SUSPENDED PROJECTS

E-5021 - DF Development and Replacement Program
E-5084 - Maintenance Facility [REDACTED]
E-5116 - [REDACTED]
E-5088 - Electronic Motor Stops
E-5412 - One Man Radio Station

25X1A2d1

25X1A2d1

15. NUMBER OF PROJECTS REPORTED ON THIS MONTH - Thirty-five

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16. ADMINISTRATIVE

TDY

25X1A9a

[REDACTED] 17 October 1957

25X1A5a1

25X1A9a

[REDACTED]
19 January 1958

25X1A6a

PCS

(Not Applicable)

EOD

(Not Applicable)

RESIGNATIONS

(Not Applicable)

TRANSFERS

(Not Applicable)

TRAINING

25X1A9a

[REDACTED] KW-26 Training, [REDACTED]
27 January 1958

25X1A6a

SUBMITTED BY: [REDACTED]

25X1A9a

Chief, Systems Engineering Branch

ATTACHMENTS:

Memorandum for the Record, SUBJECT: Double Sideband Suppressed
Carrier Communications System

Memorandum for the File, SUBJECT: Report to J&B,
Concerning Project E-5106 (Safety Switches)

Projects and Activities of the February Monthly Report

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